

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

NOV 2 5 2015

Ref: 8ENF-UFO

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT REQUESTED</u>

Mr. Les Farnsworth, District Supervisor Petroglyph Operating Company, Inc. 4116 W 3000 S Ioka Lane P.O. Box 607 Roosevelt, Utah 84066

Re: Underground Injection Control (UIC); Permission to Resume Injection for the Ute Tribal 05-10 Well (EPA Permit ID # UT20736-04234, API # 43-013-30938) - Antelope Creek Oil Field, Duchesne County, Utah

Dear Mr. Farnsworth:

On October 20, 2015, the Environmental Protection Agency received information from Petroglyph Operating Company, Inc. on the above referenced well concerning the workover to address a loss of mechanical integrity and the follow up mechanical integrity test (MIT) conducted on October 5, 2015. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. § 144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before October 5, 2020.

Pursuant to 40 C.F.R. § 144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,

Darcy O'Connor

Acting Assistant Regional Administrator Office of Partnerships and Regulatory Assistance

GREEN BLUE CBI

cc: Shaun Chapoose, Chairman Uintah & Ouray Business Committee

> Edred Secakuku, Vice-Chairman Uintah & Ouray Business Committee

> Reannin Tapoof, Executive Assistant Uintah & Ouray Business Committee



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> Edred Secakuku, Vice-Chairman Uintah & Ouray Business Committee

> Reannin Tapoof, Executive Assistant Uintah & Ouray Business Committee

bcc:

Randy Brown (8P-TA) Kimberly Pardue-Welch (8ENF-W) Gary Wang (8ENF-UFO)

Cc addresses:

Shaun Chapoose, Chairman

Uintah & Ouray Business Committee P.O. Box 70

Fort Duchesne, Utah 84026

Reannin Tapoof, Executive Assistant Uintah & Ouray Business Committee

P.O. Box 70

Fort Duchesne, Utah 84026

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Mr. Les Farnsworth District Supervisor Petroglyph Operating

Petroglyph Operating Company, Inc.

4116 W 3000 S Ioka Lane

P.O. Box 607

Roosevelt, Utah 84066

Re: Underground Injection Control (UIC); Permission to Resume Injection for the Ute Tribal 05-10 Well (EPA Permit ID # UT20736-04234, API # 43-013-30938)-located in the Antelope Creek Oil Field, Duchesne County, Utah

Dear Mr. Farnsworth:

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~ A	Author + ext.	First initial + last name	Kpw	9,0	JHEM EX	THE FORKES	(46)	MASTER BA
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Sincerely,

Shaun L. McGrath Regional Administrator

cc:

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Edred Secakuku, Vice-Chairman Uintah & Ouray Business Committee

Reannin Tapoof, Executive Assistant Uintah & Ouray Business Committee

bcc:

Randy Brown (8P-TA)

Gary Wang (8ENF-UFO)

Cc addresses:

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Randy Brown (8P-TA)
Kimberly Pardue-Welch (8ENF-W)

On office of the copy only

Edred Secakuku, Vice-Chairman Uintah & Ouray Business Committee P.O. Box 70 Fort Duchesne, Utah 84026



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Darcy O'Connor Acting Assistant Regional Administrator Office of Partnership and Regulatory Assistance cc:

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Reannin Tapoof, Executive Assistant Uintah & Ouray Business Committee

bcc:

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Kimberly Pardue-Welch (8ENF-W)

Gary Wang (8ENF-UFO)

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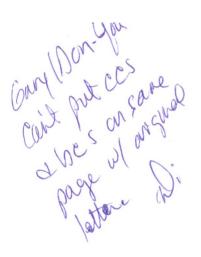
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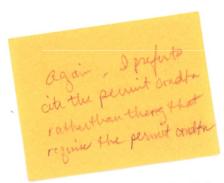


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Reannin Tapoof, Executive Assistant Uintah & Ouray Business Committee

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	Restricted Delivery Fee (Endorsement Required)
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H	Petroglyph Operating Company, Inc.
	Sent To 4116 West 3000 South loka Lane
	Street, Aj P.O. Box 2653
7	or PO Bo City, Stat. Roosevelt, UT 84066
	PS Form 3800, August 2006 See Reverse for Instructions



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DENVER, CO 80202-1129
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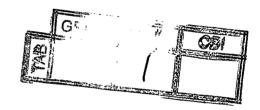
SEP 2 3 2015

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CERTIFIED MAIL 7009-3410-0000-2600-8558 RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor Petroglyph Operating Company, Inc. 4116 W 3000 S Ioka Lane P.O. Box 607 Roosevelt, Utah 84066

Re: Underground Injection Control (UIC)
Notice of Violation:
Loss of Mechanical Integrity
Ute Tribal 05-10 Well
EPA Permit ID# UT20736-04234
API # 43-013-30938
Antelope Creek Oil Field
Duchesne County, Utah



Dear Mr. Farnsworth:

On September 11, 2015, the Environmental Protection Agency (EPA) learned that the Petroglyph Operating Company, Inc. injection well referenced above lost mechanical integrity on September 7, 2015. Pursuant to the above-referenced UIC Permit and Title 40 of the Code of Federal Regulations Section 144.51(q)(1) (40 C.F.R. § 144.51(q)(1)), you must establish and maintain mechanical integrity. A loss of mechanical integrity is a violation of this requirement.

Pursuant to the above-referenced UIC Permit and the regulations at 40 C.F.R. § 144.51(q)(2), you must immediately cease injection into this well. Before injection may resume, you must demonstrate that the well has mechanical integrity by passing a mechanical integrity test (MIT). You must also receive written authorization from the EPA.

Within thirty (30) days of receipt of this letter, please submit a letter describing what action you intend to take regarding the well, including a time frame in which you anticipate the work to be completed. It is expected that you will return this well to compliance within ninety (90) days of the loss of mechanical integrity.

If you choose to plug and abandon this well, the approved plugging and abandonment plan that is incorporated into the permit must be followed. Any deviation from that plan must be submitted to the EPA for approval prior to the plugging operation.

Failure to comply with the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

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Sincerely,

Arraro Palomares, Director

Water Technical Enforcement Program
Office of Enforcement, Compliance

and Environmental Justice

cc: Shaun Chapoose, Chairman, Uintah & Ouray Business Committee Edred Secakuku, Vice-Chairman, Uintah & Ouray Business Committee Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee Brad Hill, Utah Division of Oil, Gas and Mining



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EPA Permit ID# UT20736-04234
API # 43-013-30938
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~	Author + ext.	First initial + last name	GIWANG	2. Palty
NCUR	1) Brelle	Office code	SONT-UFO	SENF-UFO
8	6198	Date	9/1/15	9/14/15

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Arturo Palomares, Director Water Technical Enforcement Program Office of Enforcement, Compliance and Environmental Justice

cc: Shaun Chapoose, Chairman, Uintah & Ouray Business Committee Edred Secakuku, Vice-Chairman, Uintah & Ouray Business Committee Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee Brad Hill, Utah Division of Oil, Gas and Mining

bcc: Jennifer Harris (8P-TA)
Kimberly Pardue-Welch (8ENF-W)
Gary Wang (8ENF-UFO)

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Brad Hill Utah Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, Utah 84114

ROUTING AND TR	AN	SMITTAL SLIP		Date	09/11/1	5
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4. Art Palomares Quica Solves					A O	1/01/
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either: 1) it contains no information clair has been redacted from any version of personnel or the party claiming the inforprominently on the first page of the doc assigned to this matter.	med the rma	to be Confidential Business Information document which may be distributed to tion to be CBI. In addition, if there is a	n (any CB	CBI); or 2 yone othe I claim, th	2) any such info er than U.S. gov aat fact must be	rmation ernment noted
	this f	orm as a RECORD of approvals, concurrences, clearances, and similar actions	disp			
FROM: (Name, org. symbol, Agency/Post)					Room No. – Bldg.	
					Phone No.	

558	US PostalS CERTIFIED Comestic Mail O	erVICE III) [VIA][Lii: REC II <i>y: No Insurance C</i> Nonvisi ou website	overage Provided/\/\;
=0		CIAIL	USE
2600	Postage	\$	
0000	Certified Fee Return Receipt Fee (Endorsement Required)		Postmark Here
	Restricted Delivery Fee (Endorsement Required)		
3470	Total Postage (Les Farnsworth, Distri-	t Supervisor
п_		roglyph Operating Con	
7009	Street, Apt. No.; 411	6 W. 3000 S loka Lane	
7	or PO Box No.). Box 607	
	City, State, ZIP+	ssevelt, Utah 84066	
	PS/Form 3800 Augus	ZOUG BER SERVICE SAME	The state of the s

DER: COMPLETE THIS SECTION complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to:	A. Signature A. Signature A. Signature Addressee B. Received by (Printed Name) C. Date of Delivery C. Date of Delivery D. Is delivery address different from item 1? If YES, enter delivery address below: No
Mr. Les Famswerth; District Supervisor Petroglyph Operating Company, Inc. 4116 W. 3000 S loka Lane P.O. Box 607 Reosevelt, Utah 84066	3. Service Type Certifled Mall
2. Article Number 7009 341	Return Receipt 102595-02-M-1540

U.S. Environmental Protection Agency
Underground Injection Control Program, 8ENF-T
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 9/24/2013

			This form wa	s printed on 7/24/2013		_	12	
INSPE	CCTOR(S): L						10/10/2013	
		others: Ajayi,	Christopher			_ Time: _	10:05	_am/pm
OPER.	ATOR (only if	different):						
REPRE	ESENTATIVE	(S):	Ch	ad Steun	1800			,
Г			PRE-INSPE	CTION REV	/IEW			
- 1	Petroglyph O	perating Con						
	Well Name:		05-10 (old 3-5E3)					
	Well Type:		Recovery (2R)					
		atus: AC (ACT	IVE) as of 12/31/20	002				
	Oil Field:	-	Creek (Duchesne)					
	Location:		T5S R3W					
	Indian Coun	try: X, Uintah	and Ouray					
	Last Inspecti	on: 8/28/2012		Allowable Inj Pi	ressure:	203	55 /	
	Last MIT:	Pass 1/9/2	009	Annulus Pressu	re From L	ast MIT: 11'	70	
•	BLACK = POSSI	BLE VIOLATION	GREY = I	ATA MINSING				
INSPE	ECTION TYPI	E: Constru	ction / Workover	Response to	o Complai	nt O	ther	
(Select (One)	Pluggin	g	Routine		ICIS En	tered	
		Post-Cl	osure	Witness M	IT	Date	12/19/03	
							B	
OBSE	RVED VALU	ES:	- 1	4.0		Initials		
Tubi	ing Gauge:	Yes				Gauge Owner		
		No	Gauge Range:	8 cara	psig		Operate	or
Ann	ulus Gauge:	Yes	Pressure:	0	psig	Gauge Owner	r: EPA	
		No	Gauge Range:	sendanny	psig		Operate	or
Brad	denhead Gauge:	Yes	Pressure:		psig	Gauge Owne	r: EPA	
Diac	ieimeaa Gaage.	No	Gauge Range:		psig		Operate	or
						C	DA	
Pum	p Gauge:	Yes No	Pressure: Gauge Range:		psig psig	Gauge Owner	r: EPA Operate	or
		No	Gauge Range.					
	rating Status:	Active		t Injecting		ged and Abanc		
(Sele	ect One)	Being Rev	worked Pro	duction	Under	r Construction	1	
110 5	etara d							
	ntered	See page 2	for photos, c	omments. an	d site-e	onditions		i
Date .	2000	12/17/13	jo. pitotos, e		GRE	EN BLUE		:
Initial	A.	2	- 1	Page 1 of 2	9			

Inspection Report For Well: UT20736 - 04234 (PAGE 2)

PHOTOGRAPHS:	
<u> </u>	No
Comments and site condi	tions observed during inspection:
GPS: GPS File ID:	
Signature of EPA Inspector(s):	Aliming

NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VIII, 999 18TH STREET - SUITE 500 DENVER, COLORADO 80202-2405

Date: 12/16/13 Hour: 8:00a	Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).
Firm Name:	Petrodyph Operating Inc
Firm Address:	Roosevelt, UT, Antelope (reet al Field)

REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title

Inspector's Name & Title (Print)

Inspector's Signature

United States Environmental Protection Agency Washington, DC 20460 ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT Name and Address of Surface Owner Ute Indian Tribe Name and Address of Existing Permittee Petroglyph Operating Company, Inc. 2258 P.O. Box 7608 P.O. Box 70 Boise, Idaho 83709 Ft. Duchesne, Utah, 84026 Permit Number State County Locate Well and Outline Unit on UT2736-04234 Duchesne Utah Section Plat - 640 Acres Surface Location Description 1/4 of NW 1/4 of SE 1/4 of Section 5 Locate well in two directions from nearest lines of quarter section and drilling unit Location 2068 ft. frm (N/S) S Line of quarter section and 2093ft, from (E/W) E Line of guarter section. U2 Entered TYPE OF PERMIT WELL ACTIVITY Individual Brine Disposal X Area X Enhanced Recovery Number of Wells 111 Hydrocarbon Storage Well Number UTE TRIBAL 05-10 Lease Name Ute Indian Tribe GREEN S TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING) INJECTION PRESSURE TOTAL VOLUME INJECTED MINIMUM PSIG MAXIMUM PSIG MAXIMUM PSIG BBI YEAR AVERAGE PSIG MONTH 0 0 1578 1619 4182 16 January 0 0 4373 1661 1674 February 16 0 4653 0 1712 1694 March 16 0 0 1729 4101 16 1718 April 0 0 1740 1747 4553 16 May 0 0 1769 4323 16 1754 June 0 0 4094 1760 1773 July 16 0 0 1786 4418 1776 August 16 0 0 3831 1780 1796 September 16 0 0 1789 1804 4494 October 16 0 0 1807 3759 November 16 1800 0 0 1825 4418 1807 December 16 Certification I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32) Date Signed Signature Name and Official Title (Please type or print) 03/21/2017 Chad Stevenson, Water Facilities Supervisor

Multi-Chem Analytical Laboratory

1553 East Highway 40 Vernal, UT 84078

Units of Measurement:

Standard



Water Analysis Report

Production Company:

PETROGLYPH OPERATING CO INC - EBUS

Well Name:

UTE TRIBAL 05-10 INJ, TT, DUCHESNE

Well Head

Sample Point: Sample Date:

1/6/2017

Sample ID: WA-345335

Sales Rep: **James Patry**

Lab Tech:

Kaitlyn Natelli

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics					
est Date:	1/25/2017	Cations	mg/L	Anions	mg/L		
ystem Temperature 1 (°F):	300	Sodium (Na):	3924.03	Chloride (CI):	4500.00		
ystem Pressure 1 (psig):	2000	Potassium (K):	30.36	Sulfate (SO ₄):	0.00		
ystem Temperature 2 (°F):	130	Magnesium (Mg):	7.28	Bicarbonate (HCO3):	2867.00		
ystem Pressure 2 (psig):	50	Calcium (Ca):	18.14	Carbonate (CO ₃):			
Calculated Density (g/ml):	1.0052	Strontium (Sr):	4.28	Hydroxide(HO):			
DH:	8.80	Barium (Ba):	28.82	Acetic Acid (CH ₃ COO)			
Calculated TDS (mg/L):	11419.28	Iron (Fe):	10.36	Propionic Acid (C2H5COO)			
CO2 in Gas (%):		Zinc (Zn):	1.77	Butanoic Acid (C ₃ H ₇ COO)			
Dissolved CO ₂ (mg/L)):	0.00	Lead (Pb):	0.03	Isobutyric Acid ((CH3)2CHCOO)			
12S in Gas (%):		Ammonia NH3:		Fluoride (F):			
12S in Water (mg/L):	5.00	Manganese (Mn):	0.17	Bromine (Br):			
ot. SuspendedSolids(mg/L):		Aluminum (Al):	0.17	Silica (SiO ₂):	27.04		
Corrosivity(LanglierSat.Indx)	0.00	Lithium (Li):	3.03	Calcium Carbonate (CaCO3):			
		Boron (B):	5.36	Phosphates (PO ₄):	9.38		
Alkalinity:		Silicon (Si):	12.64	Oxygen (O2):			

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
130.00	50.00	1.66	15.49	0.00	0.00	4.05	4.52	3.54	7.53	0.00	0.00	0.00	0.00	0.00	0.00	10.79	0.93
149.00	267.00	1.71	15.53	0.00	0.00	3.99	4.52	3.63	7.53	0.00	0.00	0.00	0.00	0.00	0.00	10.52	0.93
168.00	483.00	1.77	15.57	0.00	0.00	3.95	4.52	3.71	7.53	0.00	0.00	0.00	0.00	0.00	0.00	10.28	0.93
187.00	700.00	1.84	15.62	0.00	0.00	3.93	4.52	3.79	7.53	0.00	0.00	0.00	0.00	0.00	0.00	10.07	0.93
206.00	917.00	1.92	15.66	0.00	0.00	3.93	4.52	3.86	7.53	0.00	0.00	0.00	0.00	0.00	0.00	9.89	0.93
224.00	1133.00	2.01	15.70	0.00	0.00	3.95	4.52	3.93	7.53	0.00	0.00	0.00	0.00	0.00	0.00	9.73	0.93
243.00	1350.00	2.10	15.74	0.00	0.00	3.99	4.52	4.00	7.53	0.00	0.00	0.00	0.00	0.00	0.00	9.59	0.93
262.00	1567.00	2.20	15.77	0.00	0.00	4.04	4.52	4.05	7.53	0.00	0.00	0.00	0.00	0.00	0.00	9.46	0.93
281.00	1783.00	2.30	15.79	0.00	0.00	4.10	4.52	4.11	7.53	0.00	0.00	0.00	0.00	0.00	0.00	9.35	0.93
300.00	2000.00	2.41	15.81	0.00	0.00	4.17	4.52	4.15	7.53	0.00	0.00	0.00	0.00	0.00	0.00	9.26	0.93

Excellence

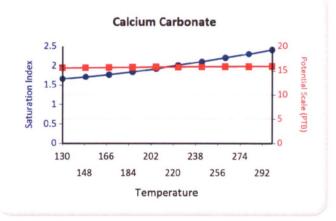


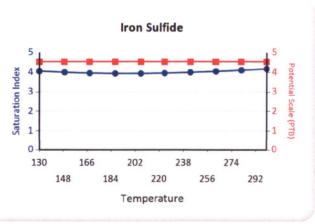
Water Analysis Report

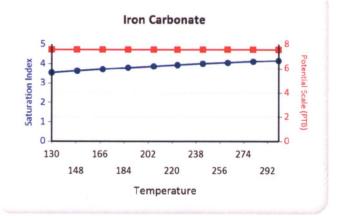
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
130.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37	1.18	10.73	0.01	4.94	14.10	2.84	21.56	13.39	8.06
149.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	2.57	1.19	10.28	0.01	5.63	14.29	3.20	22.18	13.79	8.06
168.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	2.75	1.19	9.88	0.01	6.32	14.40	3.57	22.50	14.21	8.06
187.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	2.91	1.19	9.53	0.01	7.00	14.46	3.94	22.64	14.65	8.06
206.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	3.06	1.19	9.21	0.01	7.67	14.50	4.31	22.70	15.09	8.06
224.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	3.18	1.19	8.93	0.01	8.32	14.52	4.68	22.72	15.53	8.06
243.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30	1.19	8.68	0.01	8.95	14.53	5.04	22.73	15.97	8.06
262.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	3.39	1.19	8.45	0.01	9.56	14.54	5.39	22.73	16.40	8.06
281.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	3.47	1.19	8.24	0.01	10.14	14.54	5.72	22.73	16.82	8.06
300.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	3.54	1.19	8.06	0.01	10.70	14.54	6.05	22.73	17.22	8.06

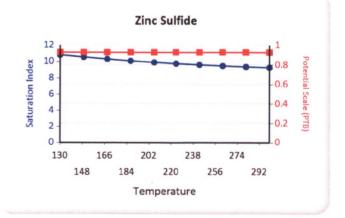
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate



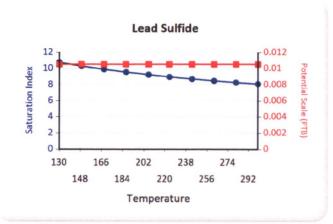


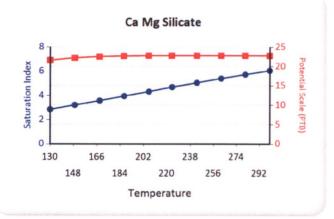


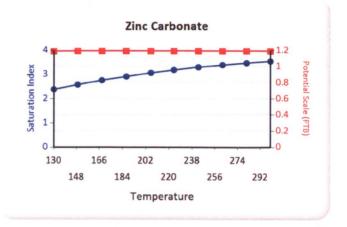


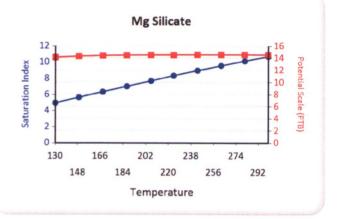


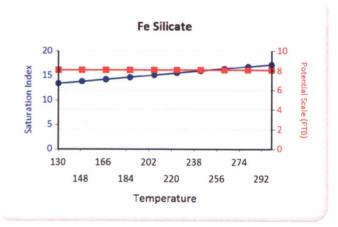
Water Analysis Report











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Approval Expires 11/30/2014 OMB No. 2040-0042 United States Environmental Protection Agency Washington, DC 20460 **≎FPA** ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT Name and Address of Surface Owner Ute Indian Tribe Name and Address of Existing Permittee Petroglyph Operating Company, Inc. 2258 P.O. Box 7608 P.O. Box 70 Boise, Idaho 83709 Ft. Duchesne, Utah, 84026 Permit Number State County Locate Well and Outline Unit on UT2736-04434 04234 Utah Duchesne Section Plat - 640 Acres Surface Location Description 1/4 of NW 1/4 of SE 1/4 of Section 5 Township 5S Locate well in two directions from nearest lines of guarter section and drilling unit Location 2068 ft. frm (N/S) S Line of quarter section and 2093ft. from (E/W) E Line of quarter section. TYPE OF PERMIT WELL ACTIVITY Е W Brine Disposal Individual X Enhanced Recovery X Area Number of Wells 11 nitial Hydrocarbon Storage Well Number UTE TRIBAL 05-10 Lease Name Ute Indian Tribe S TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING) INJECTION PRESSURE TOTAL VOLUME INJECTED MONTH YEAR AVERAGE PSIG **MAXIMUM PSIG** MINIMUM PSIG MAXIMUM PSIG RRI 15 1797 1903 882 0 January 15 1836 1985 778 0 February 0 15 1810 1992 932 March 0 15 1940 1969 746 April May 15 1951 1961 842 0 15 1939 791 0 June 1984 July 15 1952 1993 911 0 15 1964 2009 878 0 August September 15 863 1994 207 0 449 0 0 October 15 494 November 15 505 510 0 0

Certification

3434

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

1513

Name and Official Title (Please type or print)	Signature		Date Signed		
Chad Stevenson, Water Facilities Supervisor	la la 1	1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02/08/2016		
		Los jun [1]	DLUL II OID!		

December

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Petroglyph Operating Company, Inc. Annulus Pressure Cause and Mitigation Measures EPA Annual Injection Report for Reporting Period 2015

Well Name:

Ute Tribal 05-10

UIC Permit Number: UT2736-04234

API Number:

43-013-30938

Cause of Pressure and Mitigation Measures:

On September 7, 2015, the above referenced well lost Mechanical Integrity. Further research into the well's history led Petroglyph staff to conclude that the well's performance could be improved by injecting into perforations previously plugged back. On September 21, 2015, Petroglyph rigged up on the well. On December 3, 2015, the well was returned to injection.

Please see copy of attached notice and successful MIT test submitted to EPA on October 7, 2015.



September 8, 2015

Don Breffle Mail Code: 8ENF-UFO US EPA Region 8 1595 Wyncoop Street Denver, CO 80202-1129

RE: Underground Injection Control (UIC)

Notice of Violation

Loss of Mechanical Integrity EPA Permit #UT2736-04234 Well No. Ute Tribal 05-10 Antelope Creek Oil Field Duchesne County, Utah

Dear Mr. Breffle:

Please be advised that on September 7, 2015 we lost Mechanical Integrity on the Ute Tribal 05-10 Injection Well. My direct number is 435-722-5302 if you wish to contact us.

Sincerely, Petroglyph Operating Company, Inc.

Rodrigo Jurado Regulatory Compliance Specialist



1595 Wynkoop Street DENVER, CO 80202-1129 Phone 800-227-8917 http://www.epa.gov/region08

SEP 232015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2600-8558 RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor Petroglyph Operating Company, Inc. 4116 W 3000 S Ioka Lane P.O. Box 607 Roosevelt, Utah 84066

Re: Underground Injection Control (UIC)
Notice of Violation:
Loss of Mechanical Integrity
Ute Tribal 05-10 Well
EPA Permit ID# UT20736-04234
API # 43-013-30938
Antelope Creek Oil Field
Duchesne County, Utah

Dear Mr. Farnsworth:

On September 11, 2015, the Environmental Protection Agency (EPA) learned that the Petroglyph Operating Company, Inc. injection well referenced above lost mechanical integrity on September 7, 2015. Pursuant to the above-referenced UIC Permit and Title 40 of the Code of Federal Regulations Section 144.51(q)(1) (40 C.F.R. § 144.51(q)(1)), you must establish and maintain mechanical integrity. A loss of mechanical integrity is a violation of this requirement.

Pursuant to the above-referenced UIC Permit and the regulations at 40 C.F.R. § 144.51(q)(2), you must immediately cease injection into this well. Before injection may resume, you must demonstrate that the well has mechanical integrity by passing a mechanical integrity test (MIT). You must also receive written authorization from the EPA.

Within thirty (30) days of receipt of this letter, please submit a letter describing what action you intend to take regarding the well, including a time frame in which you anticipate the work to be completed. It is expected that you will return this well to compliance within ninety (90) days of the loss of mechanical integrity.

If you choose to plug and abandon this well, the approved plugging and abandonment plan that is incorporated into the permit must be followed. Any deviation from that plan must be submitted to the EPA for approval prior to the plugging operation.

Failure to comply with the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitutes one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,

Armro Palomares, Director

Water Technical Enforcement Program Office of Enforcement, Compliance

and Environmental Justice

cc: Shaun Chapoose, Chairman, Uintah & Ouray Business Committee
Edred Secakuku, Vice-Chairman, Uintah & Ouray Business Committee
Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee
Brad Hill, Utah Division of Oil, Gas and Mining

Sundry Number: 67659 API Well Number: 43013309380000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	FORM 9								
[DEPARTMENT OF NATURAL RESOLUTION OF OIL, GAS, AND I	,	5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3504						
SUNDR	Y NOTICES AND REPORT	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:						
Do not use this form for pro current bottom-hole depth, r FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK								
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: UTE TRIBAL 05-10								
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	9. API NUMBER: 43013309380000								
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Boise, ID, 83703	NE NUMBER: 685-7685 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK						
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2068 FSL 2093 FEL QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN:		COUNTY: DUCHESNE STATE:						
Qtr/Qtr: NWSE Section: (05 Township: 05.0S Range: 03.0W N	Meridian: 1		UTAH					
CHEC	K APPROPRIATE BOXES TO INDI	CATE NA	TURE OF NOTICE, REPOR	RT, OR OTHER DATA					
TYPE OF SUBMISSION			TYPE OF ACTION						
	ACIDIZE	☐ AL	LTER CASING	CASING REPAIR					
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	C c	HANGE TUBING	CHANGE WELL NAME					
,	CHANGE WELL STATUS	_ co	OMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE					
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	☐ FF	RACTURE TREAT	NEW CONSTRUCTION					
10/5/2015	OPERATOR CHANGE	PL	LUG AND ABANDON	PLUG BACK					
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	☐ RE	ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION					
Bate of Space.	REPERFORATE CURRENT FORMATION	☐ sı	DETRACK TO REPAIR WELL	TEMPORARY ABANDON					
 ,	TUBING REPAIR	□ ve	ENT OR FLARE	WATER DISPOSAL					
DRILLING REPORT Report Date:	WATER SHUTOFF	☐ sı	TA STATUS EXTENSION	APD EXTENSION					
	WILDCAT WELL DETERMINATION	√ o	THER	OTHER: Drill Out Plug and Clean					
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly sh		tinent details including dates, o	depths, volumes, etc.					
	Please see attached	d.		Accepted by the Utah Division of					
				Oil, Gas and Mining					
		•		FOR RECORD ONLY November 12, 2015					
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	•								
age in the second secon	,								
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE N 435 722-5302	UMBER	TITLE Regulatory & Compliance S	Spc					
SIGNATURE N/A			DATE 11/10/2015						

EPA ATTN: Don Breffle Region 8 1595 Wynkoop Street Denver, CO 80202-8917

UIC Permit #UT2736-04234 Well ID: Ute Tribal 05-10 Ute Tribal No. 05-10, Duchesne County, Utah

Dear Mr. Breffle,

Please find enclosed the successful MIT test for the above referenced well. This test was performed to provide proof of integrity after we rigged up on the well to address a loss of mechanical integrity and perform workover operations.

On September 7, 2015 the above referenced well lost Mechanical Integrity. Further research into the well's history led Petroglyph staff to conclude that the well's performance could be improved by injecting into perforations previously plugged back. The well had a CIBP at 5350'. On September 21, 2015 Petroglyph rigged up on the well. We released the packer and pulled the tubing, laying down the whole string. We picked up new tubing, bit and scrapper and ran in and tagged sand at 5300', drilled out sand and tagged cement and CIBP @ 5340. We drilled out and milled out cement and CIBP, chased parts to 6270' and circulated well. We made 2 bit and scrapper runs past all perforations, and circulated and cleaned well. We then rigged up a wireline truck and ran in and set a new CIBP at 6200' and spotted 10' of cement on top. We tested the plug and cement to 4000 Psi with no loss. Removal of the previous plug opened perfs at: 6062-70, 6038-44, 5826-40, 5707-16, 5422-30 & 5380-94. All Perforations are within the permitted injection interval. No new perforations were shot. The perf's injection rates were tested and all tools were pulled out of the hole. We then picked up a new Arrowset 1 Packer and rain in hole, set the packer and performed an MIT on the casing to 1820 Psi with no loss.

Please let us know if there is a need for further action on our part and we will immediately comply. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,

Rodrigo Jurado Regulatory Compliance Spc

Encl: MIT

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

SUNDRY NOTICES AND REPORTS ON WELLS De not use this form for proposable is dell new wells. significantly despen estating wells below current bottom five depths, renter plugged wells. or 10 1. TYPE OF WELL OIL WELL		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3504						
Do not use this form for processes and if new wells, significantly design entering velocity or united bottom-hook adults, new processals. 1. TYPE OF WELL OIL WELL GAS WELL OTHER Injection Well 2. NAME OF OPERATOR Petroglyph Operating Company Inc. 3. ADDRESS OF DERATOR P.O. Box 607 CITY Roosevelt STATE UT 20 84066 (435) 722-2531 Antelope Creek A. LOCATION OF WELL FOOTAGES AT SURFACE: 2068' FSL, 2093' FEL COUNTY: Duchesne OTRIGITS, SECTION, TOWNSHIP, RANGE, MERICIAN NWSE 5 5S 3W U STATE UTAH 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION NOTICE OF INTENT (submit in Duplican) Approximate dust work will start: CHANGE TURING CHANGE TO REPORT CHANGE TURING CHANGE	SUNDRY	LS	Ute Indian Tribe					
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Petroglyph Operating Company Inc. 3. address of OPERATOR: P.O. Box 607 City Roosevelt STATE UT 208 84066 (435) 722-2531 (Antelope Creek 4. LOCATION OF WELL FOOTAGES AT SURFACE: 2068' FSL, 2093' FEL COUNTY: Duchesne OTRIOTIR, SECTION, TOWNSHIP, RANGE, MERIDIAN INWSE 5 5S 3W U STATE: UTAH 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION NOTICE OF INTENT (Submit in Duplication) ALTER CASING PERVICUS PLANS OPERATOR CHANGE CHANGE TUBING OPERATIONS CHANGE TUBING OPERATOR CHANGE CHANGE TUBING OPERATOR CHANGE USUSSECULENT REPORT (Submit Original Form Only) Date of work completion: OMNINGLE PRODUCING FORMATIONS CHANGE WELL NAVE CHANGE WELL STATUS PRODUCTION (STATT/RESUME) WATER DISPOSAL (Submit Original Form Only) Date of work completion: OMNINGLE PRODUCING FORMATIONS CHANGE WELL STATUS PRODUCTION (STATT/RESUME) 7. 2015 the above referenced well lost Mechanical Integrity. Further research into the well's history led Petroglyph staff to conclude that the well's performance could be improved by injecting into perforations previously plugged back. The well had a CIBP at 5350'. On September 21, 2015 Petroglyph rigged up on the well. We released the packer and pulled the tubing, laying down the whole string. We picked up new tubing, bit and scrapper and fran in and staged sand at 5300', drilled out sand and tagged coment and CIBP @ 5340. We drilled out and milled out cement and CIBP, chased parts to 6270' and circulated well. We made 2 bit and scrapper runs past all perforations, and circulated and cleaned well. We then rigged up a wireline truck and ran in and set a new CIBP at 6200' and spotted 10' of cement on top. We tested the plug and cement to 4000 Psi with no loss. Removal of the previous plug opened perfs at: 6062-70, 6038-44, 5826-40, 5707-16, 6422-30 & 5380-94. All Perforations are within the permitted injection interval. No new perforations were shot. The perf's injection rates were tested and all tools were pulled out of the hole. We then pi	1. TYPE OF WELL OIL WELL	II						
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Date of work completion: CHANGE WELL STATUS		CHANGE WELL NAME	PLUG BAC	к	WATER DISPOSAL			
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					•			

NAME (PLEASE PRINT), ROdrigo Jurado DATE 11/10/2015

(This space for State use only)

TITLE

Regulatory Compliance Specialist

Sundry Number: 67659 API Well Number: 43013309380000





Mechanical Integrity Test Tubing/Casing Annulus Pressure Test U.S. Environmental Protection Agency Underground Injection Control Program 1595 Wynkoop Street, Denver, CO 80202

EPA Witness:		Date: (0)	5115
Test conducted by:	HAD STEVENSO.	n/	
Others present:			X
Well Name: 05-/0)	Type: ER SWD	Status: AC TA UC
Field: ANTELOPE	CREEK		
1)	ec:TN/S_R	E/W County: DUC	HESNE State: UT
Operator: <u>#FTRGLY</u> Last MIT:/	PH ENERY		
Last Will. /	Maximum All	owable Pressure:	PSIG
	Regularly scheduled test? Initial test for permit? Test after well rework?	[] Yes	
Well injecting during tes Pre-test annulus pressu	st? If Yes, rate:	bpd	
. To toot aimardo produc		psig	
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING		PRESSURE	RECORD
Initial Pressure	<i>390</i> psig	psig	psig
End of test pressure	3 8 ch sig	psig	psig
CASING / TUBING		PRESSURE	RECORD
0 minutes	/820 psig	, psig	psig
5 minutes	/820 psig	psig	psig
10 minutes	/ 7 2 0 psig	psig	psig
15 minutes	1820 psig	psig	psig
20 minutes	1720 psig	psig	psig
25 minutes	1720 psig	psig	psig
30 minutes	1720 psig	psig	psig
4 Hours minutes	1220 psig	psig	psig
minutes	psig	psig	psig
RESULT	[] Pass []Fail		and the second and second second second in the second seco
'	sure build back up aft	, ,	[] Pass []Fail psig.

Sundry Number: 67659 API Well Number: 43013309380000 17 A.K. 10 A.M. SPIARI 3 P.M. 4 P.M. HARTS 5 P.M. OOAL

Multi-Chem Analytical Laboratory

1553 East Highway 40 Vernal, UT 84078 multi-chem

Units of Measurement: Standard

Water Analysis Report

Production Company: PETROGLYPH OPERATING CO INC - EBUS

Well Name:

UTE TRIBAL 05-10 INJ, DUCHESNE

Sample Point: Sample Date: Well Head 1/6/2016

Sample ID: 1/6/2016 WA-327576

Sales Rep: James Patry
Lab Tech: Gary Peterson

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specif	fics
Test Date:	1/7/2016
System Temperature 1 (°F):	60
System Pressure 1 (psig):	2000
System Temperature 2 (°F):	180
System Pressure 2 (psig):	50
Calculated Density (g/ml):	1.0054
pH:	6.50
Calculated TDS (mg/L):	11448.08
CO2 in Gas (%):	
Dissolved CO ₂ (mg/L)):	80.00
H ₂ S in Gas (%):	
H2S in Water (mg/L):	0.00
Tot. SuspendedSolids(mg/L):	
Corrosivity(LanglierSat.Indx)	0.00
Alkalinity:	

	Analysis @ Pro	perties in Sample Specifics	
Cations	mg/L	Anions	mg/L
Sodium (Na):	3949.75	Chloride (Cl):	5500.00
Potassium (K):	8.01	Sulfate (SO4):	500.00
Magnesium (Mg):	71.07	Bicarbonate (HCO3):	1220.00
Calcium (Ca):	158.04	Carbonate (CO3):	
Strontium (Sr):	5.11	Acetic Acid (CH3COO)	
Barium (Ba):	1.57	Propionic Acid (C2H5COO)	
Iron (Fe):	2.67	Butanoic Acid (C3H7COO)	
Zinc (Zn):	1.92	Isobutyric Acid ((CH3)2CHCOO)	
Lead (Pb):	0.68	Fluoride (F):	
Ammonia NH3:		Bromine (Br):	
Manganese (Mn):	0.06	Silica (SiO2):	29.20
Aluminum (AI):	0.04	Calcium Carbonate (CaCO3):	
Lithium (Li):	1.13	Phosphates (PO ₄):	5.25
Boron (B):	1.79	Oxygen (O2):	
Silicon (Si):	13.65		

Notes:

S=174.04

(PTB = Pounds per Thousand Barrels)

			cium onate	Barium	n Sulfate		on Ifide		on onate		psum 4·2H2O		estite SO4		alite IaCl		linc Ifide
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
180.00	50.00	0.44	56.77	0.87	0.81	0.00	0.00	0.79	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	267.00	0.28	37.25	0.90	0.82	0.00	0.00	0.61	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	483.00	0.17	23.64	0.92	0.82	0.00	0.00	0.48	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	700.00	0.07	9.77	0.96	0.83	0.00	0.00	0.35	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.00	917.00	0.00	0.00	1.01	0.84	0.00	0.00	0.22	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	1133.00	0.00	0.00	1.07	0.86	0.00	0.00	0.09	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1350.00	0.00	0.00	1.15	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.00	1567.00	0.00	0.00	1.24	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	1783.00	0.00	0.00	1.34	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	2000.00	0.00	0.00	1.47	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Excellence

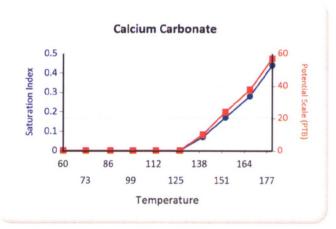


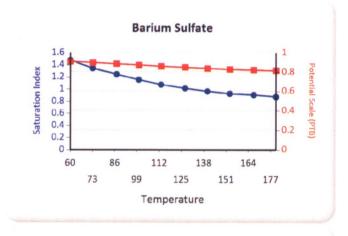
Water Analysis Report

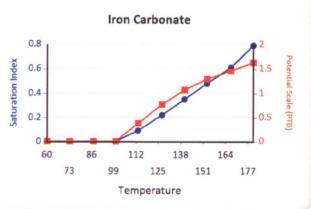
		Hemihydrate CaSO4~0.5H2O		THE RESIDENCE OF THE PARTY OF T			Calcium Zinc Fluoride Carbonate			Lead Mg Sulfide Silicate		Ca Mg Silicate		Fe Silicate			
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
180.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.85
167.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Zinc Carbonate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Barium Sulfate

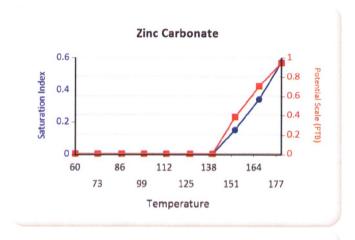


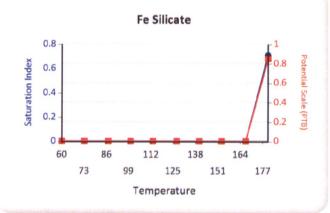






Water Analysis Report







February 10, 2016

Underground Injection Control Enforcement U.S. Environmental Protection Agency Atten: Don Breffle / Gary Wang 1595 Wynkoop St. Denver, CO 80202

RECEIVED

FEB 1 7 2016

Office of Enforcement, Compliance and Environmental Justice (UFO)

Mr. Breffle and Mr. Wang:

Please find enclosed the following annual reporting materials from Petroglyph Operating Company, Inc., for its Antelope Creek Water Flood Program, Permit Number UT2736-00000:

- Annual Disposal/Injection Well Monitoring Report for each of the 111 wells
- Related supporting documentation, to include copies of notices and successful Mechanical Integrity Tests
- Water Analysis reports

During 2015, POCI experienced a loss of mechanical integrity in the following wells:

- Ute Tribal 05-08
- Ute Tribal 05-10
- Ute Tribal 19-11
- Ute Tribal 21-04
- Ute Tribal 21-15
- Ute Tribal 29-12
- Ute Tribal 33-14D3

All wells were subsequently repaired and passed a Mechanical Integrity Test. Approvals were received for all wells.

Maximum Allowable Injection Pressure was exceeded for the Ute Tribal 16-07 (October 2015), Ute Tribal 18-14 (August 2015), Ute Tribal 29-12 (May-June 2015) as a result of performing step rate tests.

Thank you for your time. If any questions, please contact me at the following number: (208) 685-9711.

Best Regards,

Nicole Colby

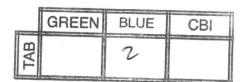
Manager, Land & Regulatory Compliance; Petroglyph Energy, Inc.

United States Environmental Protection Agency

Washington, DC 20460 ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT Name and Address of Surface Owner Ute Indian Tribe Name and Address of Existing Permittee Petroglyph Operating Company, Inc. 2258 P.O. Box 70 P.O. Box 7608 Ft. Duchesne, Utah 84026 Boise, Idaho 83709 State County Permit Number Locate Well and Outline Unit on Duchesne UT2736-04234 Utah Section Plat - 640 Acres Surface Location Description 1/4 of NW 1/4 of SE 1/4 of Section 5 Township 5S Locate well in two directions from nearest lines of quarter section and drilling unit Location 2068ft. frm (N/S) S Line of quarter section and 2093 ft. from (E/W) E Line of quarter section. WELL ACTIVITY TYPE OF PERMIT Individual Brine Disposal X Area X Enhanced Recovery Hydrocarbon Storage Number of Wells 111 Well Number UTE TRIBAL 05-10 Lease Name Ute Indian Tribe TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING) INJECTION PRESSURE TOTAL VOLUME INJECTED MONTH YEAR AVERAGE PSIG MAXIMUM PSIG BBL MINIMUM PSIG **MAXIMUM PSIG** 0 0 14 1988 2019 895 January 0 663 0 2001 February 14 1956 0 0 2012 1006 14 1957 March 0 0 14 1989 1999 1085 April 0 0 14 1988 2008 1121 May 0 0 891 1893 1962 June 14 0 0 786 2008 14 1961 July 0 0 1997 695 August 14 1969 0 0 1863 1971 713 September 14 0 0 903 1962 October 14 1931 0 0 1978 976 1951 November 14 0 0 1896 2016 918 December 14 Certification I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32) Signature Name and Official Title (Please type or print) **Date Signed** 2/10/2015 Chad Stevenson, Water Facilities Supervisor

EPA Form 7520-11 (Rev. 12-08)

U2 Entered Date _ 5/20/15 Initial



Multi-Chem Analytical Laboratory

1553 East Highway 40 Vernal, UT 84078

Units of Measurement: Standard



Water Analysis Report

Production Company:

PETROGLYPH OPERATING CO INC - EBUS

Well Name:

UTE TRIBAL 05-10 INJ, DUCHESNE

Sample Point:

WELLHEAD

Sample Date: Sample ID: 1/7/2015 WA-297467 Sales Rep:

James Patry

Lab Tech:

Gary Winegar

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specific	S
Test Date:	1/14/2015
System Temperature 1 (°F):	160
System Pressure 1 (psig):	1300
System Temperature 2 (°F):	80
System Pressure 2 (psig):	15
Calculated Density (g/ml):	0.9988
pH:	6.90
Calculated TDS (mg/L):	2463.35
CO2 in Gas (%):	
Dissolved CO ₂ (mg/L)):	16.00
H ₂ S in Gas (%):	
H2S in Water (mg/L):	5.00

Analysis @ Properties in Sample Specifics									
Cations	mg/L	Anions	mg/L						
Sodium (Na):	202.19	Chloride (CI):	1000.00						
Potassium (K):	3.10	Sulfate (SO4):	395.00						
Magnesium (Mg):	74.27	Bicarbonate (HCO3):	610.00						
Calcium (Ca):	148.50	Carbonate (CO3):							
Strontium (Sr):	4.35	Acetic Acid (CH3COO)							
Barium (Ba):	0.35	Propionic Acid (C2H5COO)							
Iron (Fe):	1.90	Butanoic Acid (C3H7COO)							
Zinc (Zn):	0.32	Isobutyric Acid ((CH3)2CHCOO)							
Lead (Pb):	0.00	Fluoride (F):							
Ammonia NH3:		Bromine (Br):							
Manganese (Mn):	0.07	Silica (SiO ₂):	23.30						

Notes:

B=.79 Al=0 Li=.25

(PTB = Pounds per Thousand Barrels)

			cium oonate	Bariun	n Sulfate	British Andrews	ron lfide		ron bonate		psum 4·2H2O		estite SO4		alite VaCl	0.0000000000000000000000000000000000000	Zinc ulfide
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	PTB	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
80.00	14.00	0.25	19.28	1.20	0.20	1.53	1.01	0.17	0.44	0.00	0.00	0.00	0.00	0.00	0.00	9.01	0.17
88.00	157.00	0.19	14.95	1.12	0.19	1.39	0.99	0.15	0.40	0.00	0.00	0.00	0.00	0.00	0.00	8.76	0.17
97.00	300.00	0.23	17.57	1.04	0.19	1.37	0.99	0.21	0.53	0.00	0.00	0.00	0.00	0.00	0.00	8.64	0.17
106.00	443.00	0.26	20.38	0.97	0.19	1.35	0.99	0.28	0.65	0.00	0.00	0.00	0.00	0.00	0.00	8.53	0.17
115.00	585.00	0.30	23.35	0.91	0.18	1.35	0.99	0.35	0.75	0.00	0.00	0.00	0.00	0.00	0.00	8.42	0.17
124.00	728.00	0.35	26.48	0.85	0.18	1.35	0.99	0.41	0.84	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.17
133.00	871.00	0.39	29.75	0.80	0.18	1.36	0.99	0.48	0.91	0.00	0.00	0.00	0.00	0.00	0.00	8.24	0.17
142.00	1014.00	0.44	33.13	0.76	0.17	1.38	0.99	0.55	0.98	0.00	0.00	0.00	0.00	0.00	0.00	8.16	0.17
151.00	1157.00	0.49	36.62	0.72	0.17	1.40	1.00	0.61	1.04	0.00	0.00	0.00	0.00	0.00	0.00	8.09	0.17
160.00	1300.00	0.54	40.19	0.68	0.16	1.43	1.00	0.68	1.09	0.00	0.00	0.00	0.00	0.00	0.00	8.02	0.17

		BEEN CONTROL	hydrate 1~0.5H2O	Suzaletinis (1941)	ydrate 3SO4	Burgaret State Co.	lcium Ioride		Zinc bonate		ead Ifide		Mg icate		a Mg licate	25.7500.07160	Fe icate
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ
80.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
106.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
124.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
151.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.43
160.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.70

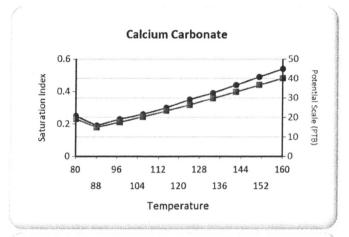
Multi-Chem - A Halliburton Service

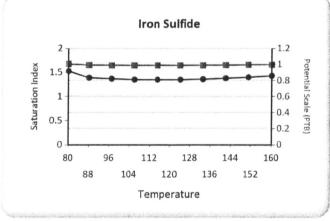
Friday, January 16, 2015

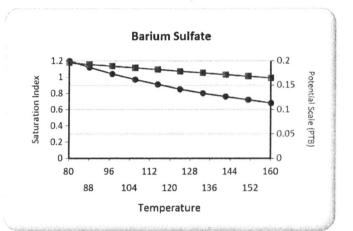
Water Analysis Report

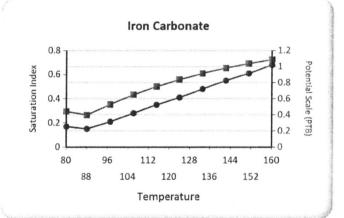
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide

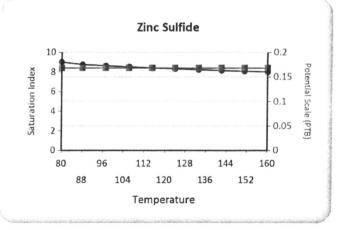
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Fe Silicate









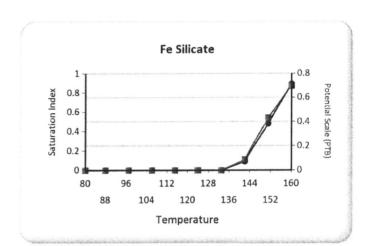


Multi-Chem Analytical Laboratory

1553 East Highway 40 Vernal, UT 84078



Water Analysis Report



Ethics

RECEIVED

SEP 11 2015

Office of Enforcement, Compliance and Environmental Justice (UFO)

September 8, 2015

Don Breffle Mail Code: 8ENF-UFO US EPA Region 8 1595 Wyncoop Street Denver, CO 80202-1129

RE: Underground Injection Control (UIC)

Notice of Violation

Loss of Mechanical Integrity
EPA Permit #UT2736-04234
Well No. Ute Tribal 05-10
Antelope Creek Oil Field
Duchesne County, Utah

Dear Mr. Breffle:

Please be advised that on September 7, 2015 we lost Mechanical Integrity on the Ute Tribal 05-10 Injection Well. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,

Petroglyph Operating Company, Inc.

Rodrigo Jurado

Regulatory Compliance Specialist

U2 Entered

Date

7/1/(1)

Initial

83

GREEN	BLUE	CBI
A A A A A A A A A A A A A A A A A A A	2	Control of the State of the Sta

RECEIVED

October 7, 2015

OCT 20 2015

Office of Enforcement, Compliance and Environmental Justice (UFO)

EPA

ATTN: Don Breffle Region 8 1595 Wynkoop Street Denver, CO 80202-8917

Well ID: Ute Tribal 05-10
Ute Tribal No. 05-10, Duchesne County, Utah

Dear Mr. Breffle,

Please find enclosed the successful MIT test for the above referenced well. This test was performed to provide proof of integrity after we rigged up on the well to address a loss of mechanical integrity and perform workover operations.

On September 7, 2015 the above referenced well lost Mechanical Integrity. Further research into the well's history led Petroglyph staff to conclude that the well's performance could be improved by injecting into perforations previously plugged back. The well had a CIBP at 5350'. On September 21, 2015 Petroglyph rigged up on the well. We released the packer and pulled the tubing, laying down the whole string. We picked up new tubing, bit and scrapper and ran in and tagged sand at 5300', drilled out sand and tagged cement and CIBP @ 5340. We drilled out and milled out cement and CIBP, chased parts to 6270' and circulated well. We made 2 bit and scrapper runs past all perforations, and circulated and cleaned well. We then rigged up a wireline truck and ran in and set a new CIBP at 6200' and spotted 10' of cement on top. We tested the plug and cement to 4000 Psi with no loss. Removal of the previous plug opened perfs at: 6062-70, 6038-44, 5826-40, 5707-16, 5422-30 & 5380-94. All Perforations are within the permitted injection interval. No new perforations were shot. The perf's injection rates were tested and all tools were pulled out of the hole. We then picked up a new Arrowset 1 Packer and rain in hole, set the packer and performed an MIT on the casing to 1820 Psi with no loss.

Please let us know if there is a need for further action on our part and we will immediately comply. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,

Rødrigo Jurado

Regulatory Compliance Spc

Encl: MIT

GREEN BLUE CBI

U2 Entered

Initial

23

Mechanical Integrity Test Tubing/Casing Annulus Pressure Test U.S. Environmental Protection Agency

	Underground Injection 1595 Wynkoop Street,	n Control Program Denver, CO 80202	·								
EPA Witness: Test conducted by:	LAD STEVENSON	Date:/ <i>O</i> /	5115								
Well Name : <u>0,5−1,0</u> Field: <u>ANTE (0PF</u> Location: <u>0,5−1,0</u> Se	CLEEK ec. T N/S R	Type: ER SWD									
Operator: PETRGLY	PH ENERY		HESNE State: UT								
Last MIT: /	_/ Maximum Alle	owable Pressure:	PSIG								
Regularly scheduled test? [] Yes [] No Initial test for permit? [] Yes [] No Test after well rework? Yes [] No Well injecting during test? If Yes, rate: bpd Pre-test annulus pressure: psig											
MIT DATA TABLE	Test #1	Test #2	Test #3								
TUBING		PRESSURE	RECORD								
Initial Pressure	<i>390</i> psig	psig	psig								
End of test pressure	3 Pasig	psig	psig								
CASING / TUBING	ANNULUS	PRESSURE	RECORD								
0 minutes	/820 psig	psig	psig								
5 minutes	/820 psig	psig	psig								
10 minutes	1820 psig	psig	psig								
15 minutes	1820 psig	psig	psig								
20 minutes	1720 psig	psig	psig								
25 minutes	1720 psig	psia	nsia								

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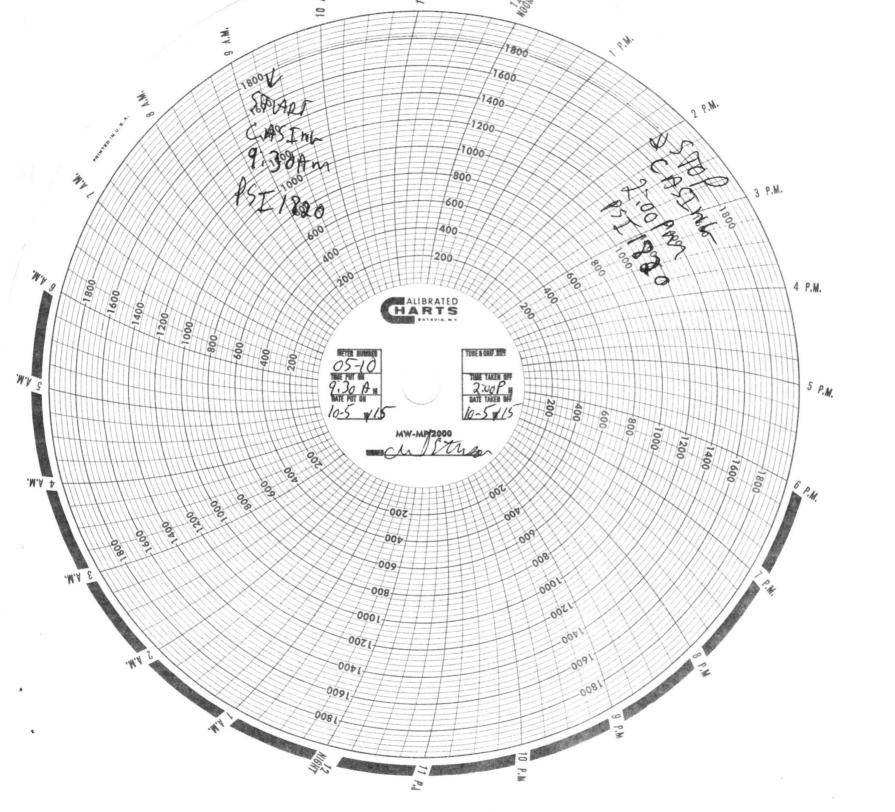
RESULT

psig

psig

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psig



United States Environmental Protection Agency

Oillea	States	THAIL OHING	itai	Frotection Agency	
	V	ashington,	DC	20460	

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT Name and Address of Surface Owner Ute Indian Tribe Name and Address of Existing Permittee Petroglyph Operating Company, Inc. 2258 P.O. Box 70 P.O. Box 7608 Ft. Duchesne, Utah 84026 Boise, Idaho 83709 State County Permit Number Locate Well and Outline Unit on Utah Duchesne UT2736-04234 Section Plat - 640 Acres Surface Location Description 1/4 of NW 1/4 of SE 1/4 of Section 5 Township 5S Range 3W Locate well in two directions from nearest lines of quarter section and drilling unit Location 2068ft. frm (N/S) S Line of quarter section and 2093 ft. from (E/W) E Line of quarter section. WELL ACTIVITY TYPE OF PERMIT W Brine Disposal Individual X Area **Enhanced Recovery** Number of Wells 111 Hydrocarbon Storage Well Number UTE TRIBAL 05-10 Lease Name Ute Indian Tribe S TUBING -- CASING ANNULUS PRESSURE INJECTION PRESSURE **TOTAL VOLUME INJECTED** (OPTIONAL MONITORING) MAXIMUM PSIG MONTH YFAR AVERAGE PSIG BBI MCF MINIMUM PSIG MAXIMUM PSIG 0 0 13 1803 1950 489 January 0 0 February 13 1936 2012 588 0 0 13 1957 2022 516 March 13 0 0 April 1960 1968 603 0 0 13 May 1969 1998 569 0 0 13 1921 1988 500 June 0 0 13 1941 1986 402 July 0 13 1830 0 August 1982 362 0 0 September 13 1822 1915 495 0 0 October 13 1943 1977 734 0 0 November 13 1979 2002 856 0 0 December 13 1963 1977 820 Certification I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32) Name and Official Title (Please type or print) Signature **Date Signed** Chad Stevenson, Water Facilities Supervisor 2/11/2014 EPA Form 7520-11 (Rev. 12-08) Date ______ 3 (13/4

Initial

Multi-Chem Analytical Laboratory

1553 East Highway 40 Vernal, UT 84078

Units of Measurement: Standard



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Water Analysis Report

Production Company: PETROGLYPH ENERGY INC

Well Name:

UTE TRIBAL 05-10 INJ

Sample Point: Sample Date: Sample ID:

Wellhead 1/8/2014 WA-262965 Sales Rep: James Patry

Lab Tech: Gary Winegar

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics							
Test Date:	1/15/2014						
System Temperature 1 (°F):	180						
System Pressure 1 (psig):	1300						
System Temperature 2 (°F):	60						
System Pressure 2 (psig):	15						
Calculated Density (g/ml):	1.006						
pH:	8.40						
Calculated TDS (mg/L):	12351.75						
CO2 in Gas (%):							
Dissolved CO ₂ (mg/L)):	0.00						
H ₂ S in Gas (%):							
H2S in Water (mg/L):	0.00						

Analysis @ Properties in Sample Specifics							
Cations	mg/L	Anions	mg/L				
Sodium (Na):	4369.93	Chloride (CI):	6000.00				
Potassium (K):	51.00	Sulfate (SO ₄):	97.00				
Magnesium (Mg):	25.00	Bicarbonate (HCO3):	1659.20				
Calcium (Ca):	56.00	Carbonate (CO3):					
Strontium (Sr):	5.20	Acetic Acid (CH3COO)					
Barium (Ba):	7.00	Propionic Acid (C2H5COO)					
Iron (Fe):	55.00	Butanoic Acid (C3H7COO)					
Zinc (Zn):	0.31	Isobutyric Acid ((CH3)2CHCOO)					
Lead (Pb):	0.11	Fluoride (F):					
Ammonia NH3:		Bromine (Br):					
Manganese (Mn):	0.33	Silica (SiO2):	25.68				

Notes:

B=4.9Al=.22 Li=1.2

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate				Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	PTB	SI	РТВ	SI	РТВ	SI	PTB	SI	РТВ	SI	PTB
60.00	14.00	1.45	41.91	1.60	4.06	0.00	0.00	3.21	39.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	157.00	1.46	41.75	1.46	4.02	0.00	0.00	3.28	39.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86.00	300.00	1.48	42.24	1.33	3.96	0.00	0.00	3.35	39.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	443.00	1.50	42.76	1.22	3.90	0.00	0.00	3.41	39.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	585.00	1.53	43.32	1.12	3.84	0.00	0.00	3.48	39.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.00	728.00	1.56	43.88	1.03	3.76	0.00	0.00	3.55	39.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	871.00	1.60	44.44	0.96	3.69	0.00	0.00	3.61	39.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	1014.00	1.64	44.98	0.90	3.62	0.00	0.00	3.67	39.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.00	1157.00	1.69	45.50	0.84	3.55	0.00	0.00	3.73	39.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	1300.00	1.73	45.98	0.80	3.48	0.00	0.00	3.79	39.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

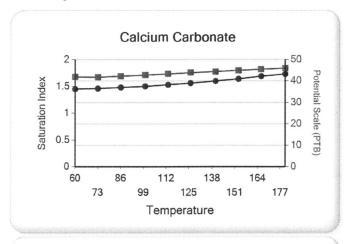
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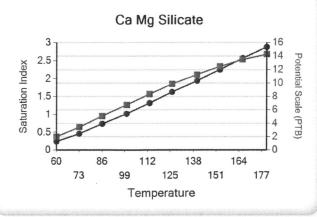
Water Analysis Report

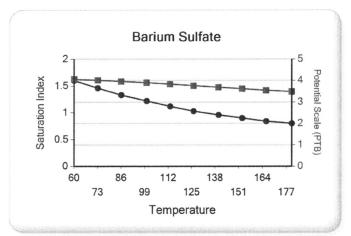
		Hemihydrate CaSO4~0.5H2 O				Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	РТВ	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.00	0.00	0.73	5.09	0.24	1.99	10.80	27.81
73.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.09	0.00	0.00	1.19	7.77	0.46	3.42	10.99	27.81
86.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.13	0.00	0.00	1.72	10.80	0.74	5.11	11.27	27.83
100.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.16	0.00	0.00	2.27	13.77	1.02	6.78	11.58	27.83
113.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.18	0.00	0.00	2.82	16.68	1.32	8.38	11.90	27.84
126.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.19	0.00	0.00	3.39	19.50	1.63	9.89	12.25	27.84
140.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.19	0.00	0.00	3.95	22.19	1.94	11,27	12.60	27.85
153.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.20	0.00	0.00	4.51	24.66	2.25	12.47	12.97	27.85
166.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.20	0.00	0.00	5.08	26.81	2.57	13.49	13.34	27.85
180.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.20	0.00	0.00	5.63	28.50	2.88	14.29	13.72	27.85

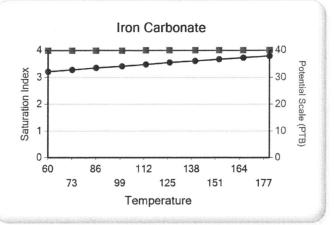
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate



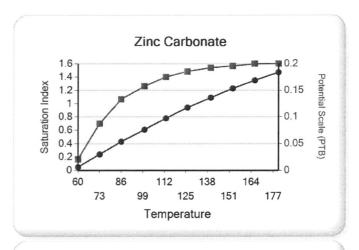


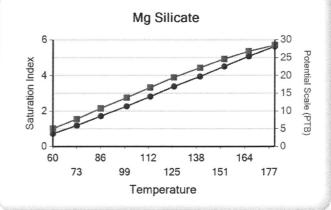


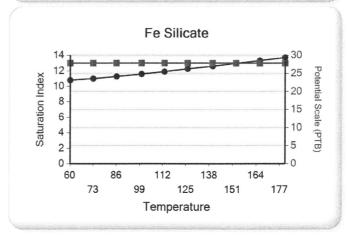


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Water Analysis Report







Ethics



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 999 18TH STREET - SUITE 300 DENVER, CO 80202-2466

AUG 28 2001

Ref: 8P-W-GW

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Micheal Safford Operations Coordinator Petroglyph Operating Company, Inc. P.O. Box 607 Roosevelt, UT 84066

RE: UNDERGROUND INJECTION CONTROL (UIC)
APPROVAL TO INCREASE MAXIMUM
SURFACE INJECTION PRESSURE
EPA Area Permit No. UT2736-00000
Ute Tribal No. 05-10
EPA Well Authority No. UT04234
Antelope Creek Waterflood
Duchesne County, Utah

Dear Mr. Safford:

The Environmental Protection Agency (EPA) Antelope Creek Final Area Permit UT2736-00000 (Effective July 12, 1994) Part II, Section C. 5. (b), permits the "Director" to authorize, by letter, an increase in the maximum surface injection pressure (MIP) for the Ute Tribal No. 05-10, following receipt and approval of a valid step-rate test (SRT).

On August 3, 2001, Petroglyph Energy, Inc. (Petroglyph) submitted an SRT to the EPA, dated July 20, 2001. The SRT was received by the EPA on August 10, 2001. The SRT was reviewed and approved by the EPA on August 10, 2001. The SRT shows the fracture gradient (FG) for the Green River Formation injection interval between the approximate depths of 3,750' and 5,850' to be 0.90 psi/ft.

As of the date of this letter, the EPA authorizes an increase in the maximum surface injection pressure (MSIP) from 1900 psig to 2055 psig. The following modified injection pressure will provide for higher injectivity capacity which will improve the waterflood efficiency without endangering any underground sources of drinking water (USDWs).

FG = 0.90 psi/ft

D = 4426 feet: top of perforations

SG = Specific gravity of injectate: 1.005

0.433 = Density of injectate fluid MIP = [(0.90) - (.433)(1.005)] 4426

MSIP = 2055 psiq

Please send all compliance correspondence relative to this well to the ATTENTION: Nathan Wiser, at the letterhead address, citing Mail Code: 8ENF-T very prominently. You may call Mr. Wiser at 303.312.6211.

All other provisions and conditions of the Permit remain as originally issued July 12, 1994 and Revised April 30, 1998.

Sincerely,

Kerrigan G. Clough

Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

cc: Mr. D. Floyd Wopsock, Chairman
Uintah & Ouray Business Committee
Ute Indian Tribe

Ms. Elaine Willie, Environmental Coordinator Ute Indian Tribe

Norman Cambridge BIA - Uintah & Ouray Agency

Mr. Jerry Kenczka BLM - Vernal District Office

Mr. Gilbert Hunt State of Utah Natural Resources Division of Oil, Gas & Mining

Mr. Nathan Wiser 8ENF-T

Step Rate Test (SRT) Analysis

Operator: Petroglyph Energy, Inc.

Date:	08/10/01	Well	l :	Ute Tribal	05-10	
		Permit #	f:	UT2736-0	4234	
Enter the	following o	lata :				
	J	Specific Gravity (SG	٠,	of injectate	1.005	g/cc
		Depth to top per	•	• •	4426	feet
		Depth to Top of permitted i	nje	ection zone	3750	 feet
	Estimated Form	ation Parting Pressure (Pfp) fro	m	SRT chart	2060	— psi
		intaneous Shut In Pressure (ISI			2120	psi
Bo	ttom Hole Partir	ng Pressure (from downhole press	sur	re recorder)		psi
	•	,				
<u>Part One -</u>		of Fracture Gradient (F		<u></u>	0.900	psi/ft.
		FG = Phhp / Depth (D) of top perforat le recorded bottom hole parting pressur				0.901
	Calcul	lated Bottom Hole Parting Pressi	ure	=	<u>3986</u>	psi
	Calc	ulated Pbhp = Formation Fracture Pro (Use lesser of ISIP or Pfp)	essi	ure + (0.433 * value used=	SG * D) 2060	·
Part Two	- Calculatio	n of Maximum Surface	Į.		Prossuro (MSIP

Maximum Surface Injection Pressure

(rounded down to nearest 5 psig) $MSIP = [FG \cdot (0.433 * SG)] * Depth to top of permitted injection zone (or top perforation)$

4426

psig

2057



UNITED STES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500 DENVER, COLORADO 80202-2466

MAY 12 1995

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

R. A. Christensen, President Petroglyph Operating Company, Inc. 6209 North Highway 61 Hutchinson, Kansas 67502

RE: UNDERGROUND INJECTION CONTROL (UIC)

Authorization to Inject

Antelope Creek Field Waterflood EPA Area Permit No. UT2736-00000

Scan under

Anjed & Final

UT20736-04234

Duchesne County, Utah

Dear Mr. Christensen:

A request for authorization to inject into the two recently converted wells listed below was received from Petroglyph's Roosevelt, Utah office on May 9, 1995. The Well Rework Records, well schematics, and mechanical integrity test results were included with the request. Petroglyph has complied with all pertinent conditions [Part II, C. 1.] of the area permit which includes these two wells, and may begin injection operations.

Well Location EPA Permit No.

Ute Tribal #1-29 SE/4 Sec 29, T5S-R3W UT2736-04233

Ute Tribal #3-5 E3 SE/4 Sec 5, T5S-R3W UT2736-04234

Please be aware of the monitoring, recordkeeping, and reporting obligations described in Part II, Section D of the permit. If you have any questions on this action, you may call John Carson at (303) 293-1435. Also, please direct all correspondence to the attention of John Carson at Mail Code 8WM-DW.

Sincerely,

Thomas J \sqrt{Pike}

Chief

UIC Implementation Section

cc: Ms. Deanna Rice

Petroglyph Operating Company, Inc.

P.O. Drawer 607

Roosevelt, Utah 84066

COMPLETE THIS SECTION ON DELIVERY **SENDER: COMPLETE THIS SECTION** A. Received by (Please Print Clearly) B. Date of Delivery ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse C. Signature so that we can return the card to you. ☐ Agent Attach this card to the back of the mailpiece, Addressee or on the front if space permits. D. Is delivery address different from item 1? 1. Article Addressed to: 8/28/01 CW 4154C & If YES, enter delivery address below: ☐ No Mr. Micheal Safford 4155C Operations Coordinator Petroglyph Operating Co., Inc. SEP P.O. Box 607 84066 *11G 2 8 2001 UT Roosevelt, 3. Service Type XX Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ C.O.D. ☐ Insured Mail 4. Restricted Delivery? (Extra Fee) ☐ Yes 2. Article Number (Copy from service label) 7001 0320 0005 9387 1826 PS Form 3811, July 1999 Domestic Return Receipt 102595-00-M-0952 (miled together); Original green Cond)

1. UTE TRIBAL NO. 05-16
(UT2736-04234)

2. UTE TRIBAL NO. 19-01
("T2736-04502)

(#4550) 2. UTE TRIBAL NO. 19-01 (UT2736-04502)

CERTIFIED (Domestic Mail C	only; No In	surance	Coverage		
					000099 95000 09600
Postage	\$				
Certified Fee					
Return Receipt Fee Endorsement Required)			_ P	ostmark Here	
Restricted Delivery Fee Endorsement Required)					
Total Postage & Fees	\$		AUG	28	2001
ent To Mr. Mich					
Operation Poly Boly Boly Boly Boly Boly Boly Boly B	ph Ope			Inc.	
ity, State PZIO 4 BOX	607				

J. A. J.		Service D MAIL RE Only; No Insurance	CEIPT e Coverage	Provided)
0320 0005 9387	Postage Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees Sent To Mr. Mich	\$		HCY4/550 estmark Here
7007	Street, Apl No. Patio or PO BoPetrogly City, Statp 2104 BOX	ons Coordinat ph Operating 607	Co., I	nc.